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## **APPENDIXES**

This Appendix contains prints of digital images depicting natural and cultural aspects of the project area on Kelleys Island, Ohio. The Appendix is subdivided into 4 sections which comprise the following topics:

**Appendix A: Vernal Pools Wetland**

**Appendix B: Building Envelope**

**Appendix C: Historic Features**

—Lincoln House

—Cistern

—Lincoln Stone Wall

**Appendix D: Submerged Features**

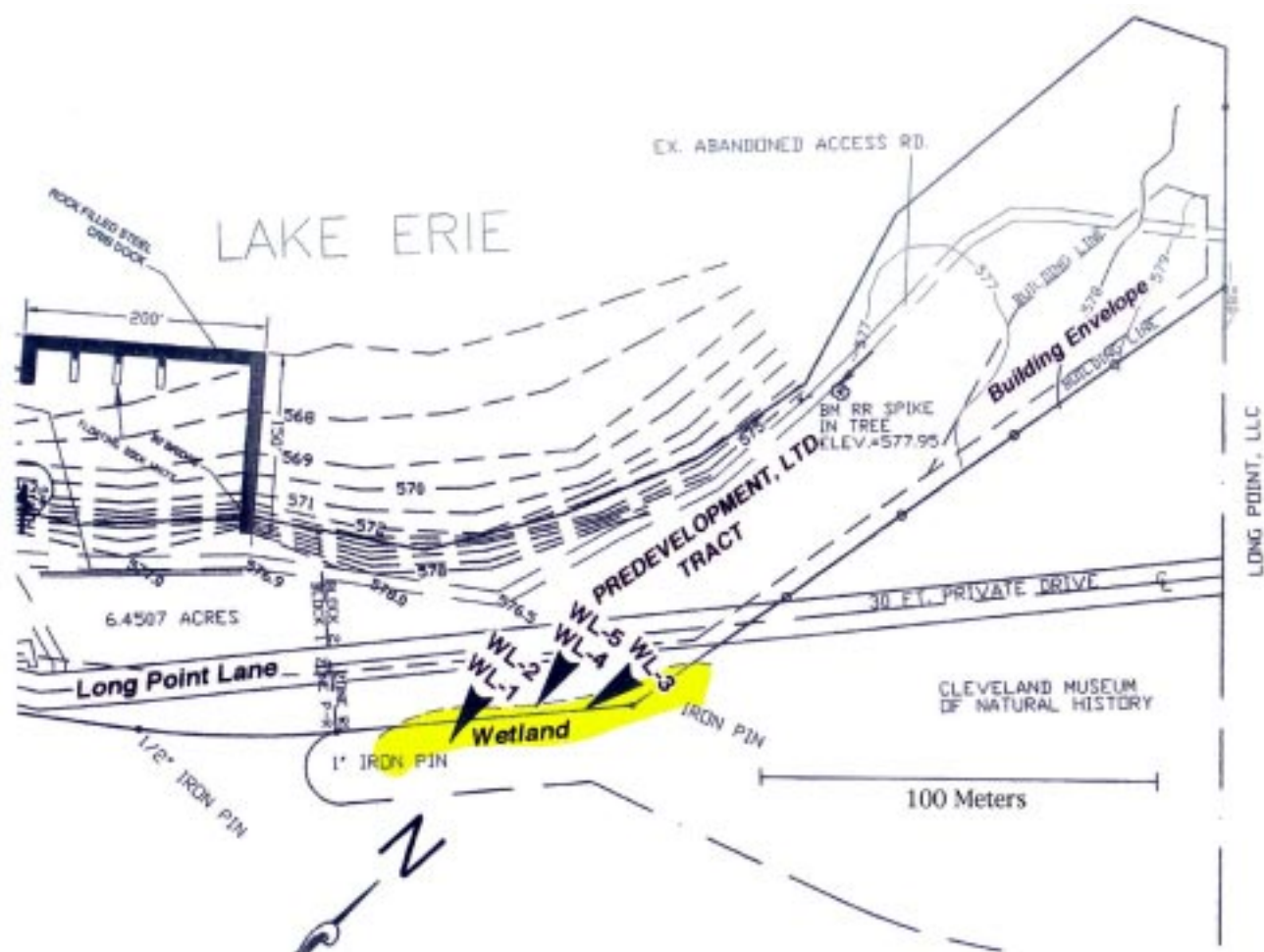
—Project Shoreline

At the beginning of each section, a map of the area or a plan view of the feature is included which shows the location and orientation of the images. The digital images were made between April 30, and June 8, 2004.



# APPENDIX A

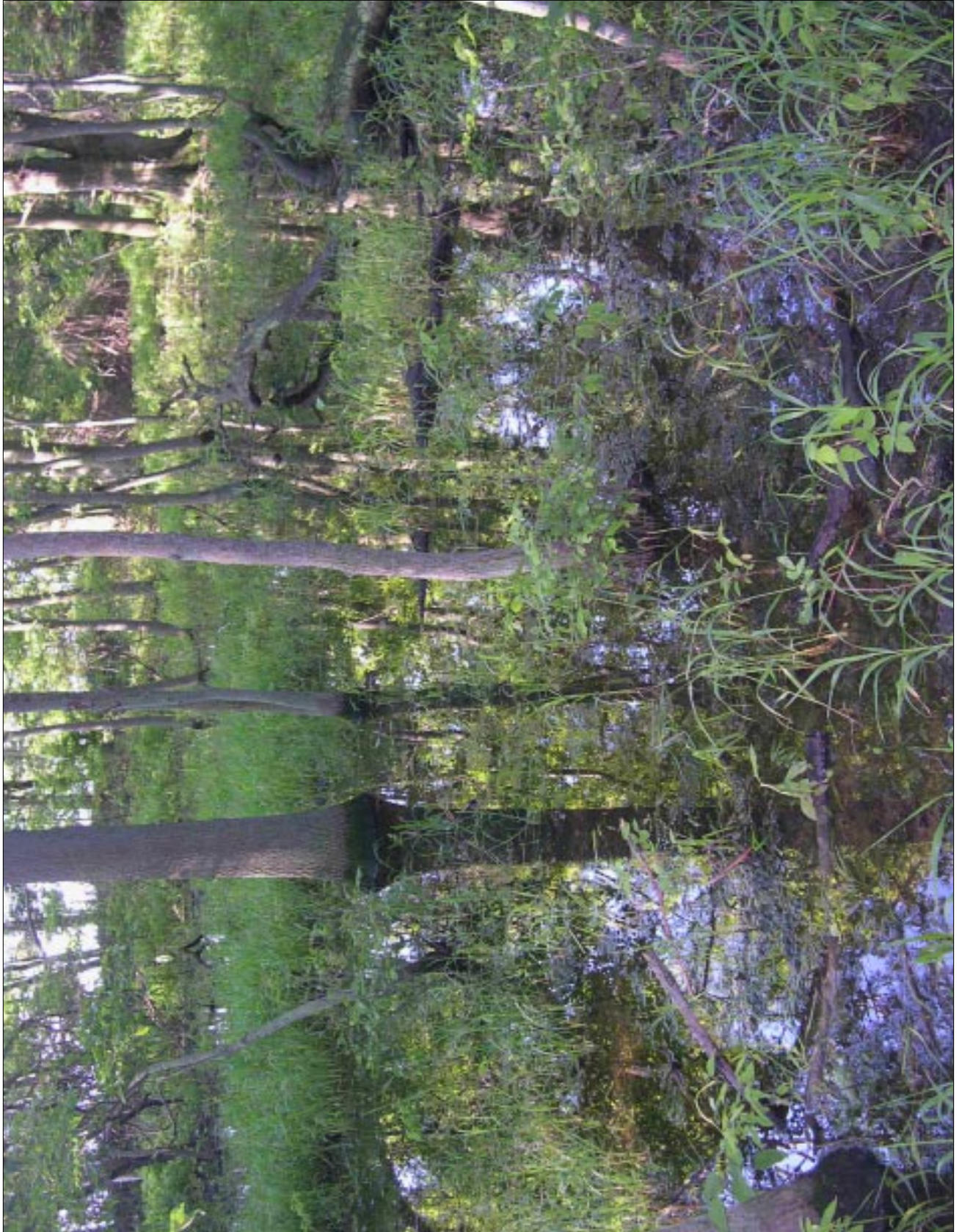
## VERNAL POOLS WETLAND





*Image WL-1. A suspected vernal pool wetland along the eastern boundary of the Predevelopment, Ltd. tract (April 30, 2004).*





*Image WL-2. Vernal pool wetland in same area as WL-1 following spring rains in May (June 3, 2004).*





*Image WL-3. Vernal pool wetland in forested area east of Long Point Lane (June 3, 2004).*





*Image WL-4. Vernal pool wetland, showing growth of sedges in standing water (June 3, 2004).*



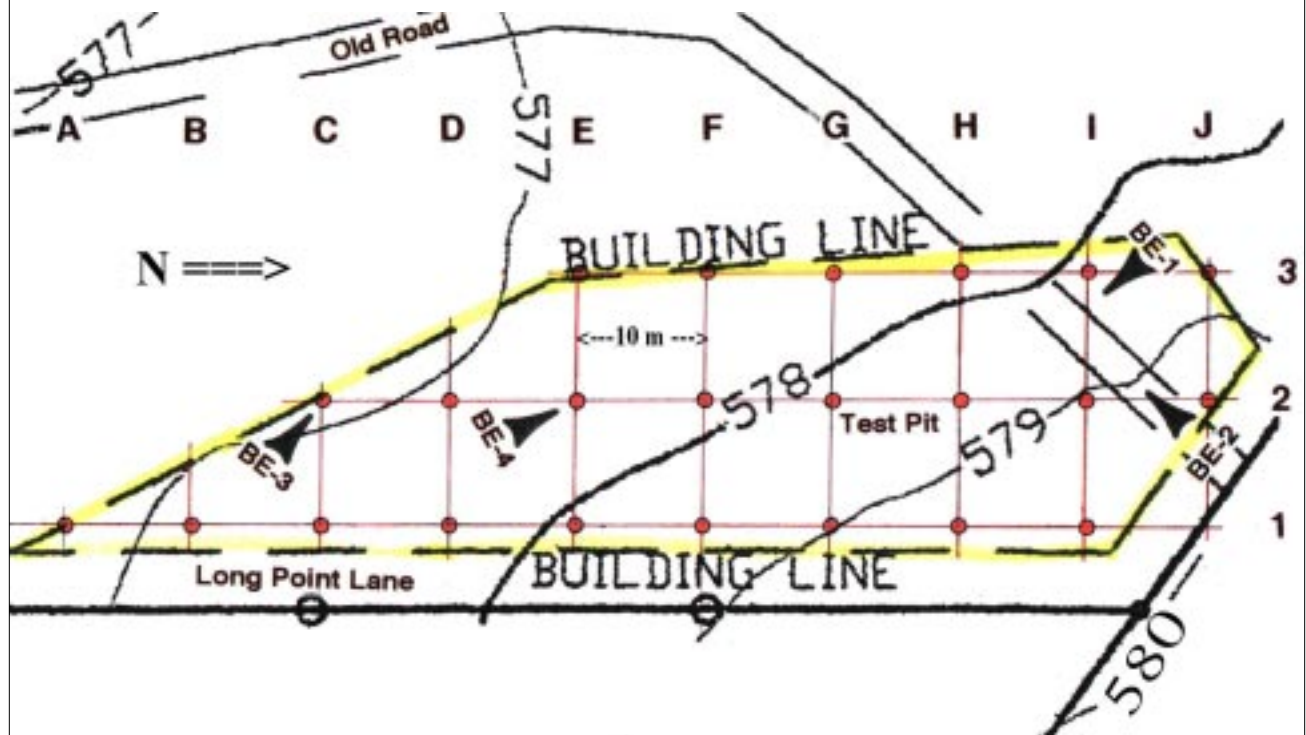


*Image WL-5. Vernal pool wetland in same area as WL-4, showing absence of standing water about one week after a rain. Sedge is Carex frankii (June 8, 2004).*



## APPENDIX B

### BUILDING ENVELOPE







*Image BE-1. View from the northern end of the Building Envelope, showing the forest and dense ground cover (April 30, 2004).*





*Image BE-2. View of the abandoned Monagan Road which traverses the northern portion of the Building Envelope, showing the exposed bedrock (Columbus Limestone) in the road bed (April 30, 2004).*





*Image BE-3. Shovel test pit at station C-2 in the Building Envelope, showing the dark grayish brown Milton soil; 17 pieces of chert were recovered from this pit (May 27, 2004).*





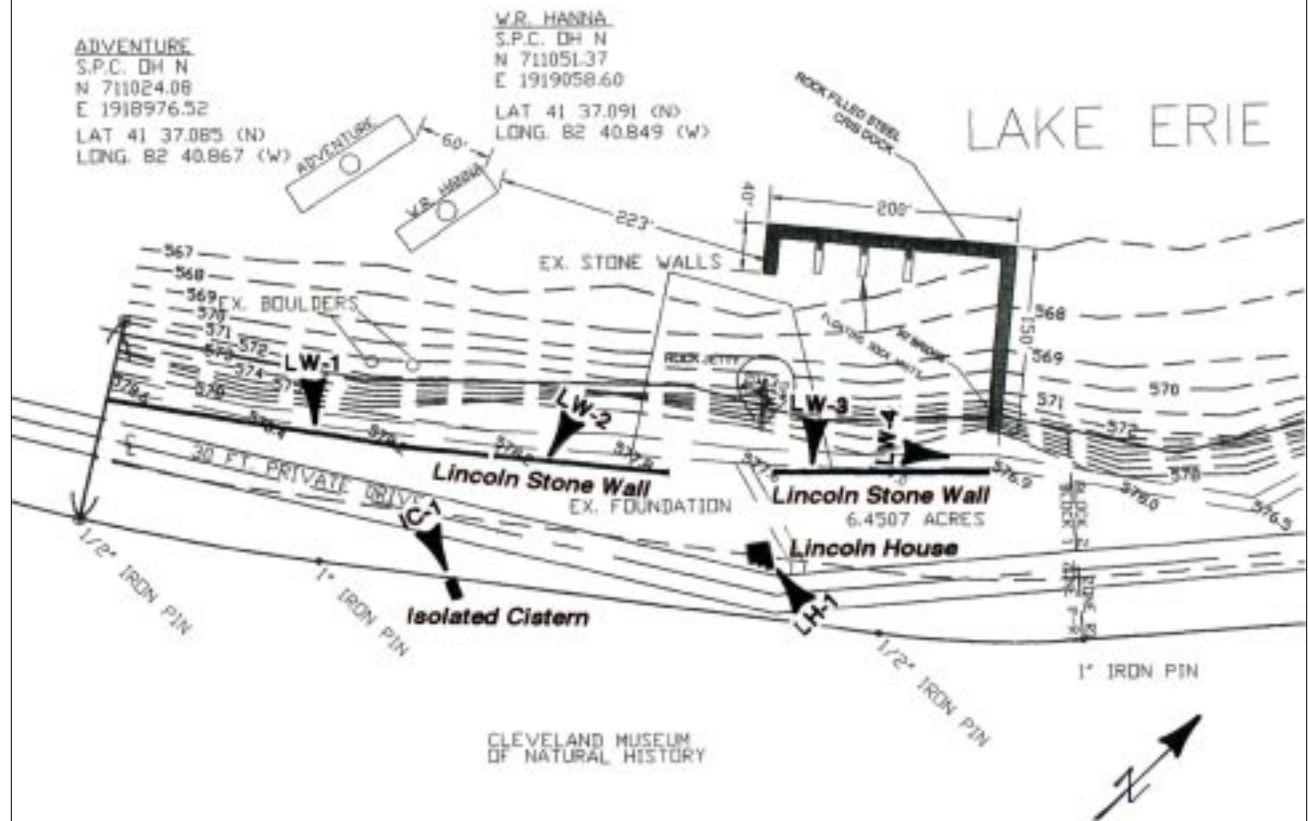
*Image BE-4. Shovel test pit at station E-2 in the Building Envelope, showing bedrock surface at depth of 0.8 ft below dark grayish brown Castalia soil; 4 pieces of chert debitage were recovered (May 27, 2004).*





# APPENDIX C

## HISTORIC FEATURES: LINCOLN STONE WALL







*Image LW-1. Lincoln Stone Wall (ca. 1865) near the southwestern end of the Predevelopment. Ltd. tract; height of wall 1 m (April 30, 2004).*





*Image LW-2. Lincoln Stone Wall midway along its reach on the Predevelopment. Ltd. tract; note large slabs used in the top course of limestone (May 27, 2004).*





*Image LW-3. Lincoln Stone Wall in the vicinity of the Lincoln House foundation; note glacial boulders intermixed with the limestone slabs (May 27, 2004).*





*Image LW-4. Lincoln Stone Wall near its northeastern terminus; note proximity of abandoned Monagan Road and Lake Erie shoreline; storm berm of limestone slabs can be seen at left center (April 30, 2004).*

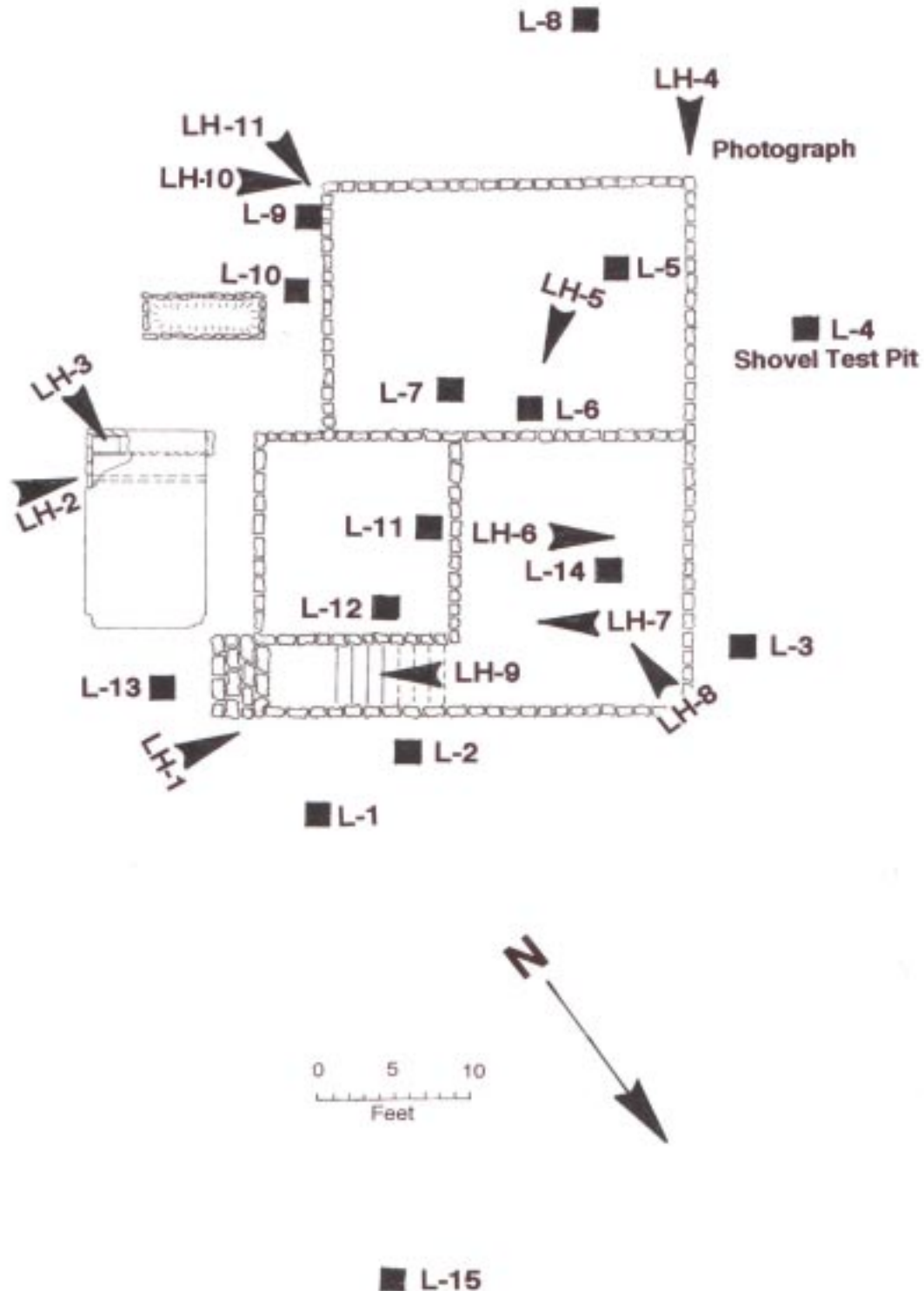






## APPENDIX C

### HISTORIC FEATURES: LINCOLN HOUSE







*Image LH-1. Lincoln House foundation (ca. 1865), showing stairway and cellar walls of dry-laid limestone slabs (April 30, 2004).*





*Image LH-2. Broken cap on concrete cistern (ca. 1900) on western side of Lincoln House; note cellar wall at upper right (April 30, 2004).*





*Image LH-3. View inside concrete cistern at Lincoln House, showing interior brick wall; cistern approximately 1.4 m deep (May 29, 2004).*





*Image LH-4. Lincoln House foundation stones along east side; note cellar wall at upper right (April 30, 2004).*





*Image LH-5. Lincoln House cellar walls, showing entrance to stairway at upper right; approximately 1.5 m of wall exposed at stairway (April 30, 2004).*





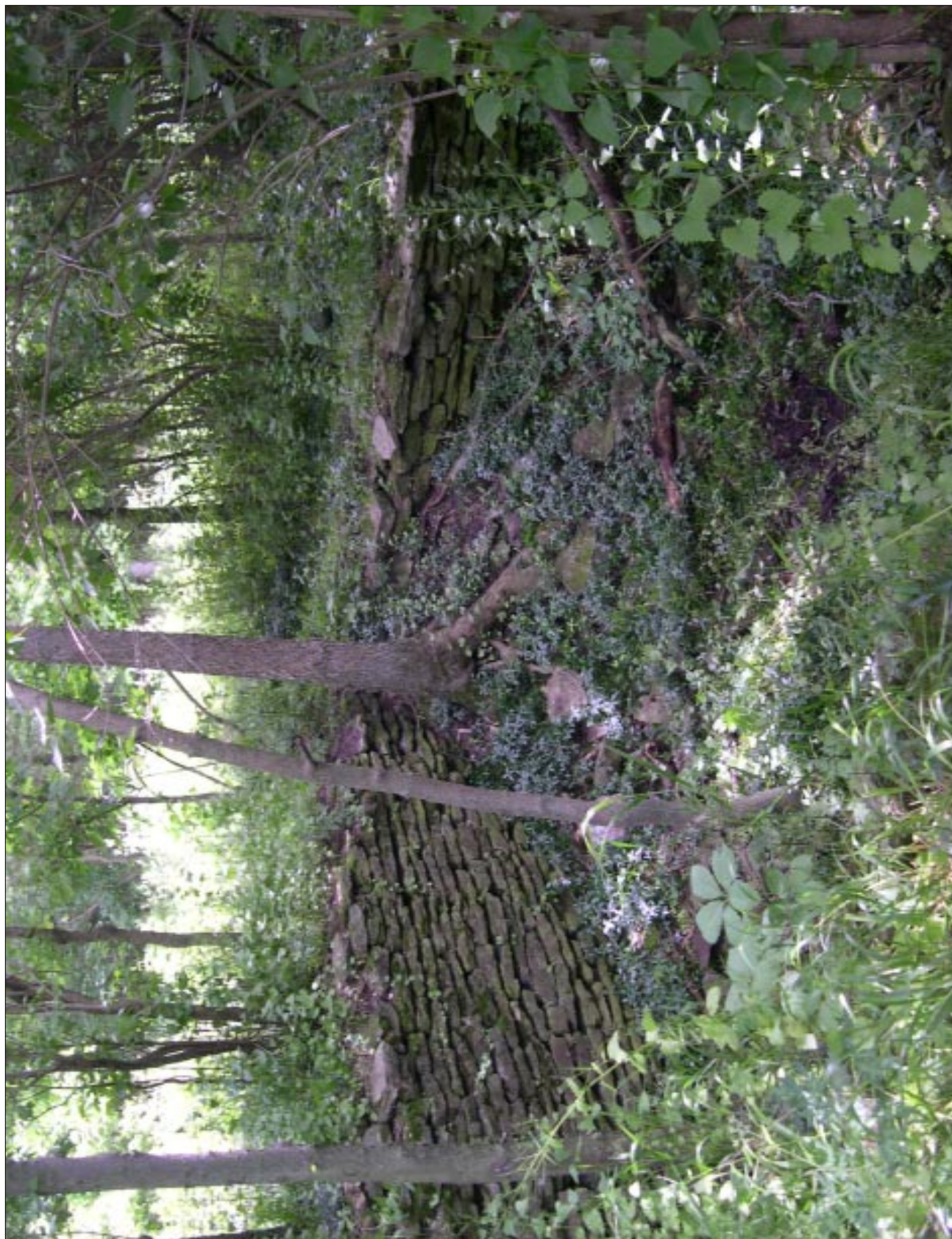
*Image LH-6. East cellar wall of Lincoln House; stadia pole marked in feet and tenths (May 29, 2004).*





*Image LH-7. West cellar wall and stairway of Lincoln House; stadia pole marked in feet and tenths (May 29, 2004).*





*Image LH-8. Lincoln House cellar, showing fill debris and 0.2 m diameter hackberry tree growing on floor (May 29, 2004).*





*Image LH-9. Cellar stairs of Lincoln House; note cut stone steps underlain with layers of brick (May 29, 2004).*





*Image LH-10. Foundation stones of Lincoln House along south side; note irregular shapes of limestone slabs (April 30, 2004).*





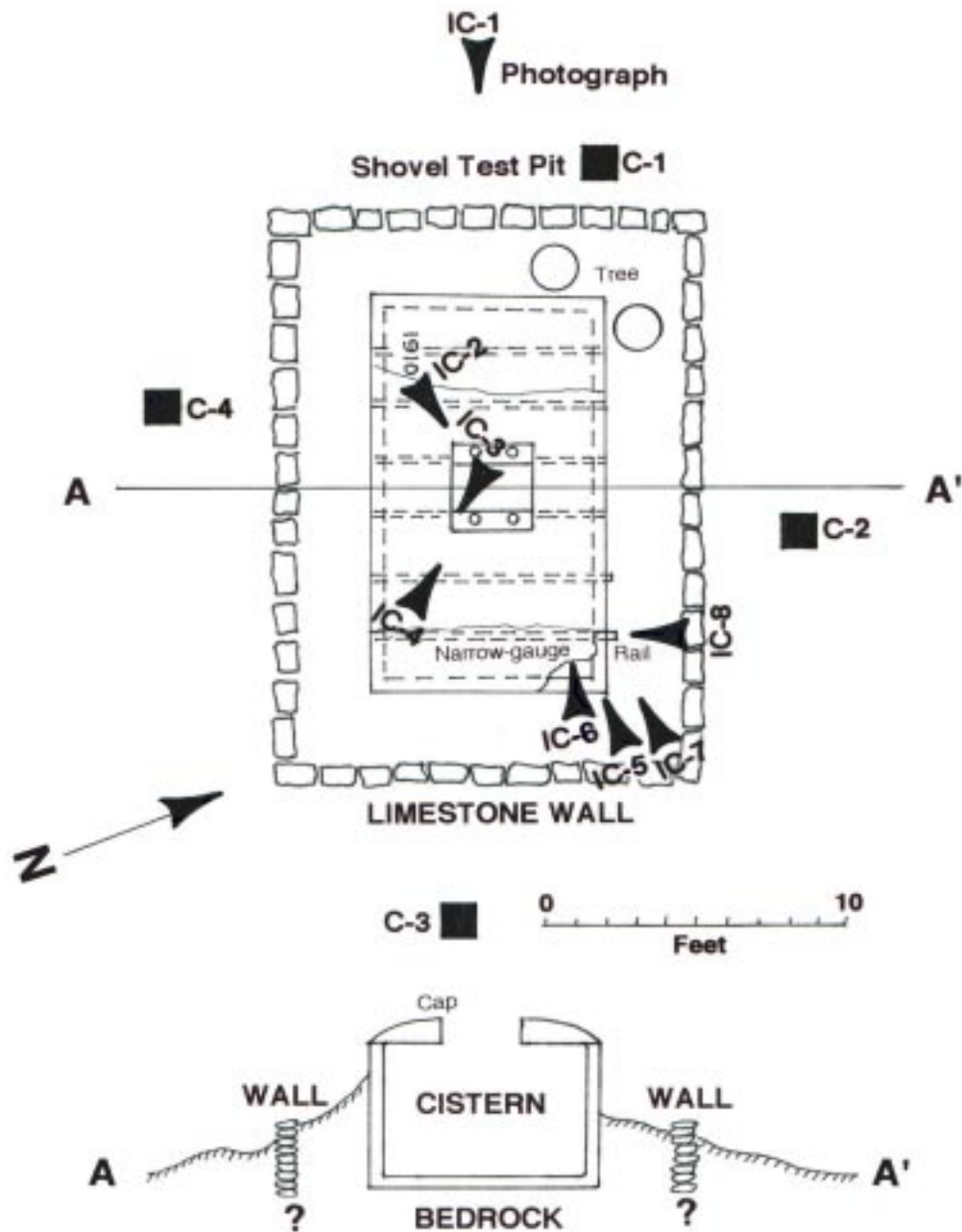
*Image LH-11. Foundation stones of Lincoln House at southern corner; cellar wall at upper left and position of presumed kitchen at upper right (April 30, 2004).*



# APPENDIX C

## HISTORIC FEATURES:

### CISTERN

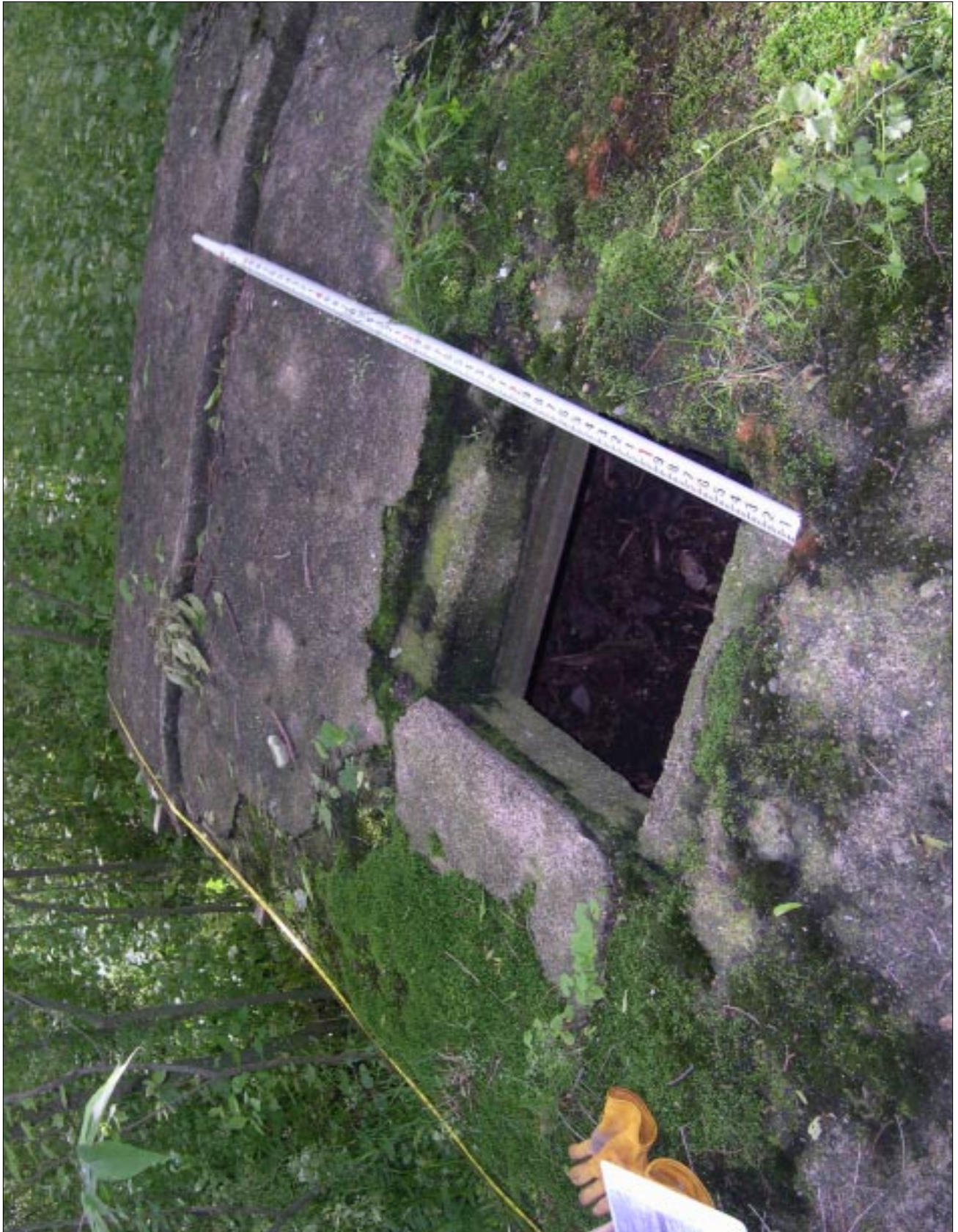






*Image IC-1. Isolated upground cistern (ca. 1910) located approximately 72 m southwest of Lincoln House; note perimeter wall of limestone slabs (April 30, 2004).*





*Image IC-2. Cap of isolated cistern viewed toward the west, showing rectangular opening; stadia pole marked in feet and tenths (May 29, 2004).*





*Image IC-3. Interior view of cistern, showing concrete walls and cap which is reinforced with narrow-gauge railroad rails (May 29, 2004).*





*Image IC-4. Cap of isolated cistern viewed toward the east; date "1910" etched in concrete is poorly visible at upper left (April 30, 2004).*





*Image IC-5. Broken cap at east corner of isolated cistern, showing interior and thickness of concrete walls; tape measure marked in feet and tenths (May 29, 2004).*





*Image IC-6. Interior of isolated cistern from east corner; cistern depth approximately 1.4 m (May 29, 2004).*





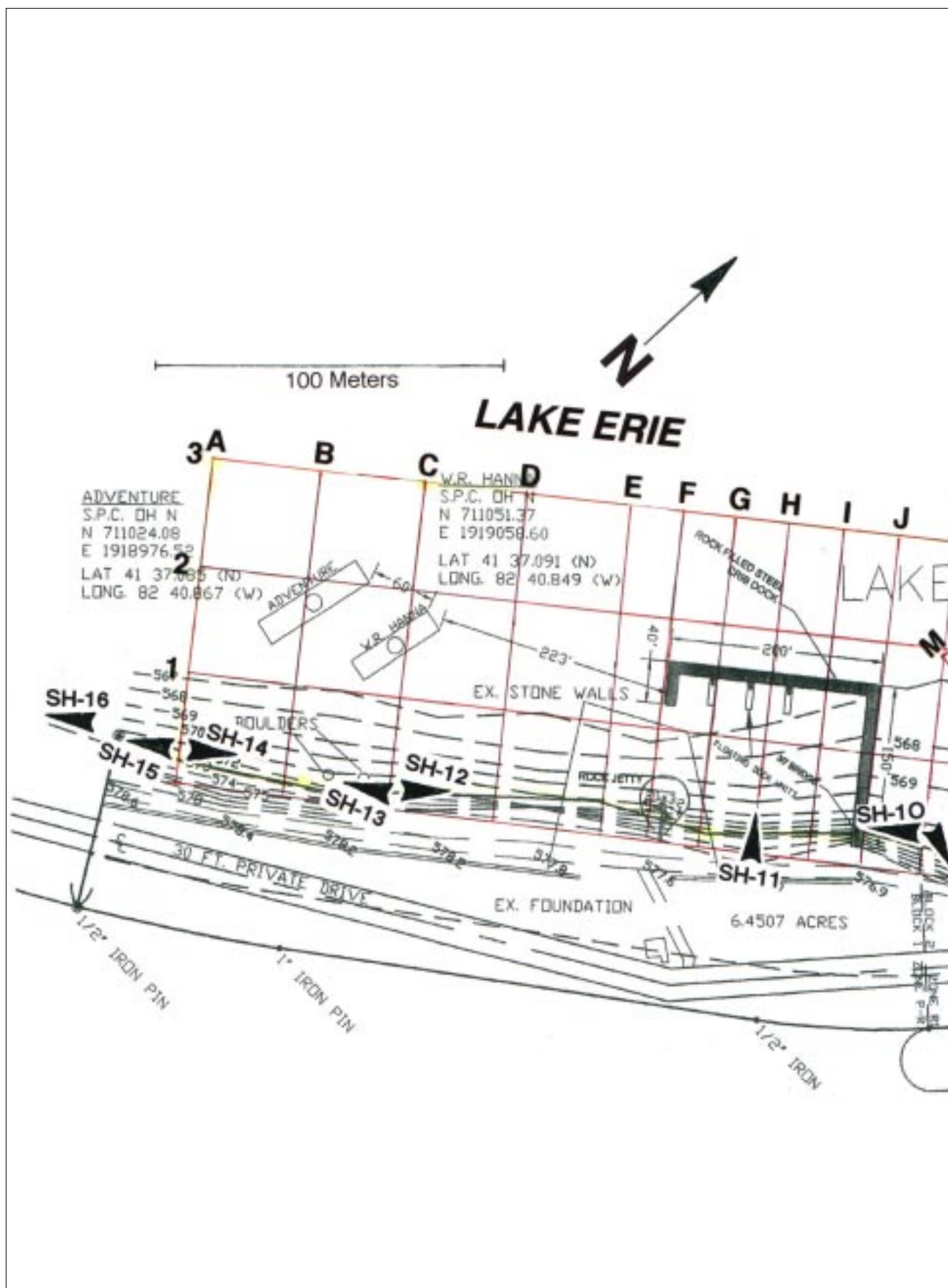
*Image IC-7. Side and cap of isolated cistern from east corner, showing narrow-gauge railroad rail used to reinforce cap; stadia pole marked in feet and tenths (May 29, 2004).*





*Image IC-8. Close-up view of narrow-gauge railroad rail used to reinforce cistern cap; stadia pole marked in feet and tenths (May 29, 2004).*



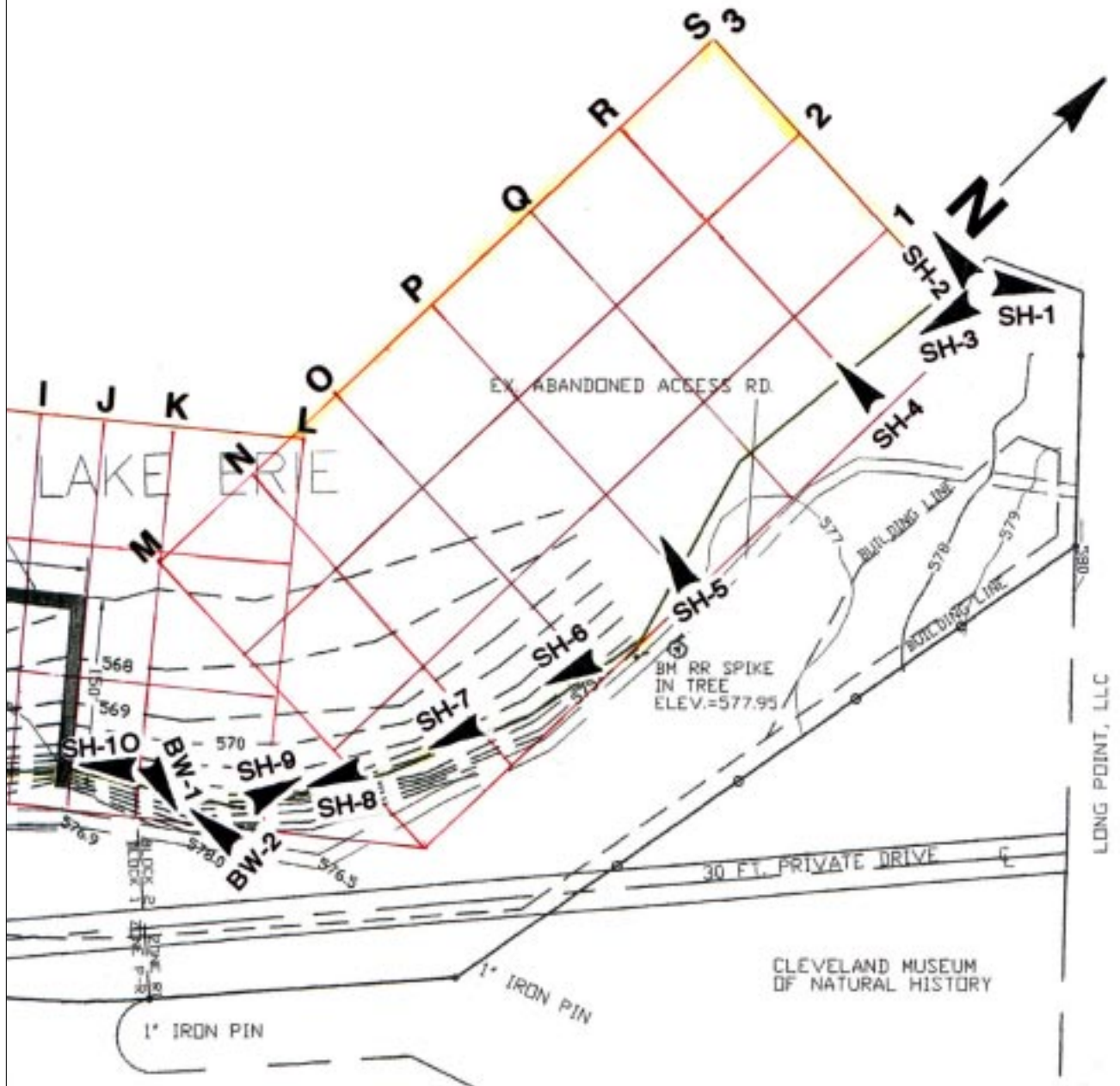




# APPENDIX D

## SUBMERGED FEATURES:

## PROJECT SHORELINE

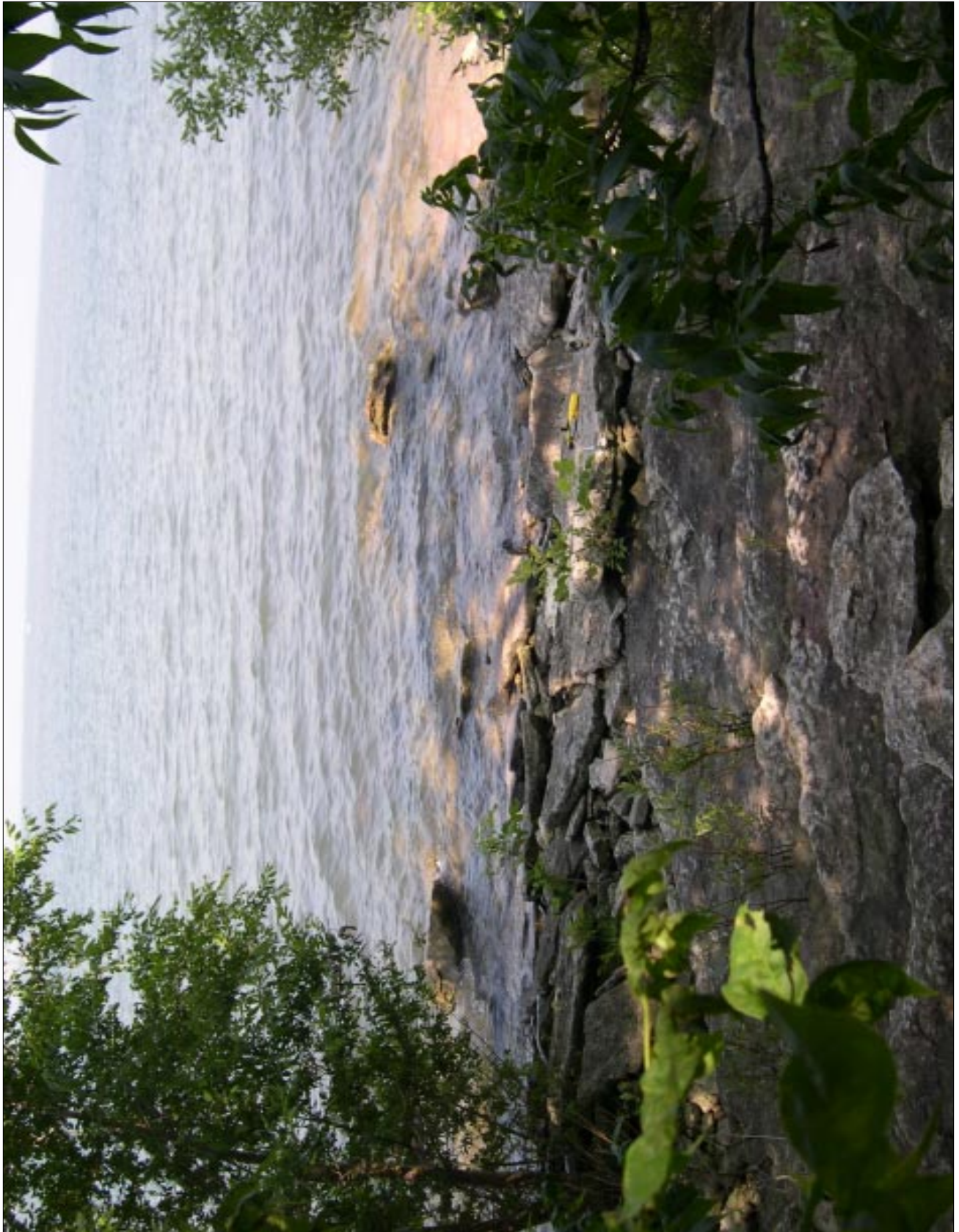






*Image SH-1. Shoreline view to the northeast from the northern edge of the Predevelopment, Ltd. tract; note limestone bedrock ledges (June 8, 2004).*





*Image SH-2. Shoreline view to the west along transect S; note nearshore bottom composed of bedrock (June 8, 2004).*





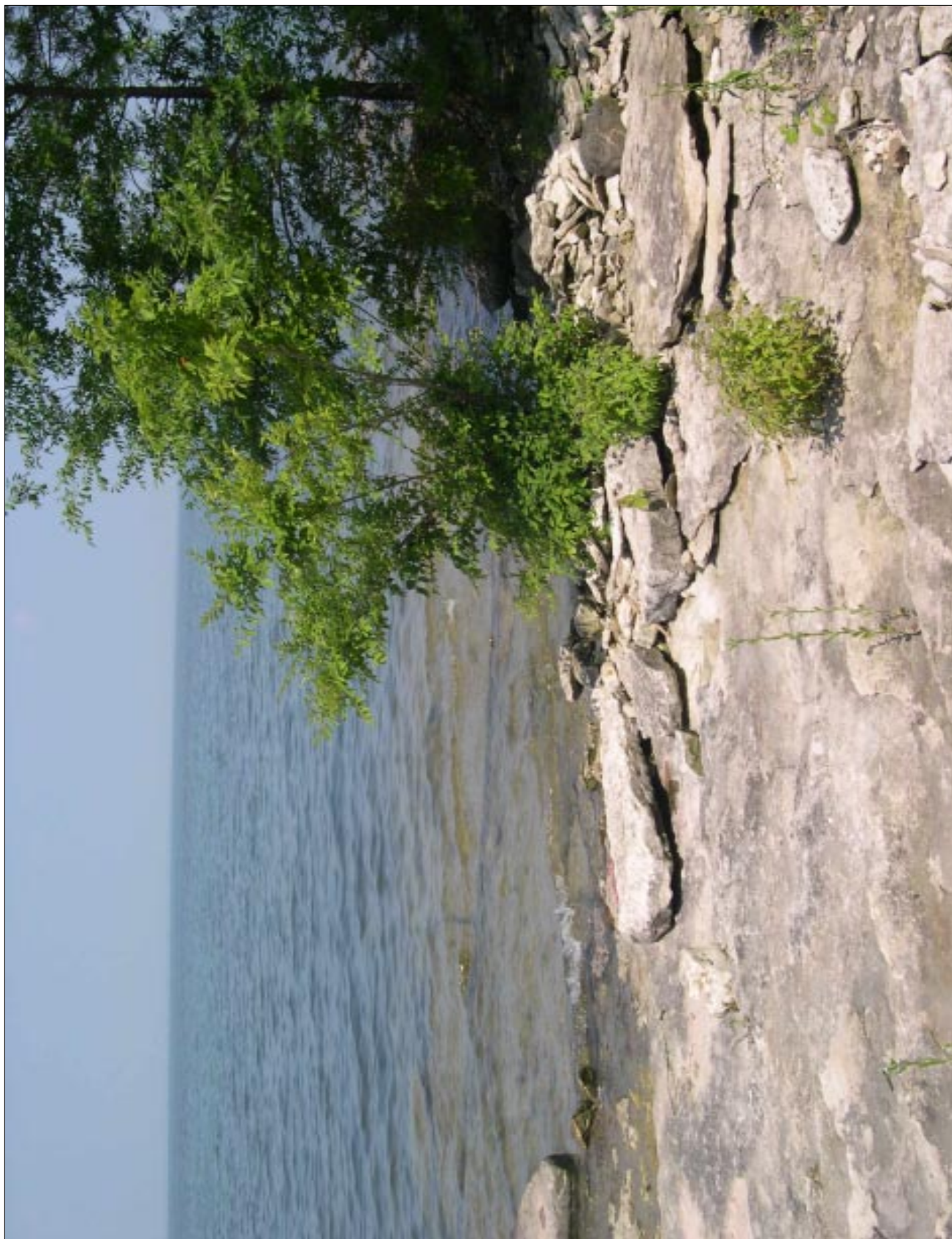
*Image SH-3. Shoreline view to the south from transect S, showing broad embayment along the Predevelopment, Ltd. tract (June 8, 2004).*





*Image SH-4. Shoreline view to the west along transect R; note submerged bedrock shelf (June 8, 2004).*





*Image SH-5. Shoreline view to the west along transect P; note bedrock plain on the shore that extends underwater (June 8, 2004).*





*Image SH-6. Shoreline view to the south from transect O; note large glacial boulders and limestone slabs at water's edge of embayment (June 8, 2004).*





*Image SH-7. Shoreline view to the south from transect N; note limestone rubble beach in foreground and offshore bedrock shelf (June 8, 2004).*





*Image SH-8. Shoreline view to the southwest from transect M; note rubble beach grading to sand near the center of the embayment (June 8, 2004).*





*Image SH-9. Shoreline view to the north from transect L; note sandy beach with limestone cobbles at center of embayment (June 8, 2004).*





*Image SH-10. Shoreline view to the southwest from transect K; note large limestone slabs dislodged from the bedrock ledge (June 8, 2004).*





*Image SH-11. Shoreline view to the northwest along transect H (near center of proposed boat docking facility); note mixed materials of the beach ranging from sand and granules (largely zebra mussel shells and fragments) to limestone slabs and glacial boulders (June 8, 2004).*





*Image SH-12. Shoreline view to the northeast from transect C; note massive limestone ledge at waterline and bedrock shelf offshore (June 8, 2004).*





*Image SH-13. Shoreline view to the southwest from transect C, in the vicinity of the shipwreck of the scow schooner W. R. HANNA; note large glacial boulders at waterline (June 8, 2004).*





*Image SH-14. Shoreline view to the northeast from transect A; note the broad embayment along the Predevelopment, Ltd. tract (June 8, 2004).*





*Image SH-15. Shoreline view to the southwest from transect A; note the sand and granule beach mixed with limestone slabs that grades to a cobble beach and bedrock at the backshore (June 8, 2004).*





*Image SH-16. Shoreline view to the southwest at the southern edge of the Predevelopment, Ltd. tract; note bedrock ledge and dislodged limestone slabs (June 8, 2004).*